L1 1 POMOLIC ACID/CN

=> dis 11

L1 ANSWER 1 OF 1 REGISTRY COPYRIGHT 2007 ACS on STN

RN 13849-91-7 REGISTRY

ED Entered STN: 16 Nov 1984

CN Urs-12-en-28-oic acid, 3,19-dihydroxy-, (3β) - (9CI) (CA INDEX NAME)

OTHER CA INDEX NAMES:

CN Urs-12-en-28-oic acid, 3β , 19-dihydroxy- (8CI)

OTHER NAMES:

CN 19α-Hydroxyursolic acid

CN 3β , 19α -Dihydroxy Urs-12-en-28-oic acid

CN Benthamic acid

CN Pomolic acid

CN Randialic acid A

FS STEREOSEARCH

DR 11045-21-9, 11046-60-9

MF C30 H48 O4

LC STN Files: AGRICOLA, BEILSTEIN*, BIOSIS, CA, CAPLUS, CASREACT, CHEMCATS, DDFU, DRUGU, IPA, NAPRALERT, PROMT, TOXCENTER, USPAT2, USPATFULL (*File contains numerically searchable property data)

Absolute stereochemistry.

PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

119 REFERENCES IN FILE CA (1907 TO DATE)

3 REFERENCES TO NON-SPECIFIC DERIVATIVES IN FILE CA

119 REFERENCES IN FILE CAPLUS (1907 TO DATE)

=> file caplus

COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST 7.35 7.56

FILE 'CAPLUS' ENTERED AT 20:33:36 ON 10 JAN 2007

Page 1 searched 01/10/2007

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FILE COVERS 1907 - 10 Jan 2007 VOL 146 ISS 3 FILE LAST UPDATED: 9 Jan 2007 (20070109/ED)

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=> s pomolic acid/cn
 REG1stRY INITIATED

Substance data SEARCH and crossover from CAS REGISTRY in progress... Use DISPLAY HITSTR (or FHITSTR) to directly view retrieved structures.

L3 119 L2

=> dis 13

L3 ANSWER 1 OF 119 CAPLUS COPYRIGHT 2007 ACS on STN

AN 2006:706769 CAPLUS

DN 145:152597

TI Bio-conjugated proteins having natural antibiotic and antioxidation activities

IN Lee, Hwan Up

PA Kim, Jong Won, S. Korea

SO Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DT Patent

LA Korean

FAN CNT 1

1144. CM 1					
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
ΡI	KR 2004035503	Α	20040429	KR 2002-64671	20021022
PRAI	KR 2002-64671		20021022		

=> dis 13 all

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ANSWER 1 OF 119 CAPLUS COPYRIGHT 2007 ACS on STN
1.3
AN
     2006:706769 CAPLUS
DN
     145:152597
ED
     Entered STN: 21 Jul 2006
ΤI
     Bio-conjugated proteins having natural antibiotic and antioxidation
     activities
IN
     Lee, Hwan Up
     Kim, Jong Won, S. Korea
PA
SO
     Repub. Korean Kongkae Taeho Kongbo, No pp. given
     CODEN: KRXXA7
DT
     Patent
     Korean
LΑ
IC
     ICM A61K038-00
CC
     63-5 (Pharmaceuticals)
FAN.CNT 1
     PATENT NO.
                       KIND
                               DATE
                                          APPLICATION NO.
                                                                 DATE
                        ---<del>-</del>
                               _____
                                           ______
                                                                 ------
    KR 2004035503
                        A
                               20040429 KR 2002-64671
                                                                  20021022
PRAI KR 2002-64671
                               20021022
CLASS
             CLASS PATENT FAMILY CLASSIFICATION CODES
 PATENT NO.
                       KR 2004035503 ICM
                       A61K038-00
                IPCI A61K0038-00 [ICM, 7]
AB
     Provided are bio-conjugated proteins having natural antibiotic and
     antioxidn. activities by solid-liquid separation of enzymes, alkaloids,
diploids,
    proteins, vitamins, inorg. matters and the like and conjugating
     non-protein material with pure protein to give a polymer as a bioactive
     material with various kinds of amino acids. The bio-conjugated proteins
     are manufactured by the steps of: mixing 30 g of protein, 1 g of lipid, 8 g of
     carbohydrate, 200 g of sodium, 1000 mg of inositol, 1000 mg of luteolin,
     1000 mg of gingerol, 1000 mg of shogaol, 1000 mg of allicin, 1000 mg of
    allinin, 1000 mg of menthol, 1000 mg of linolic glyceride, 1000 mg of
    phytosterol, 1000 mg of salinigrin, 1000 mg of zingerone, 1000 mg of
    eugenol, 1000 mg of eugenin, 1000 mg of glucoside, 1000 mg of pomole acid,
     1000 mg of capsaicin, 5100 mg of saporin, 5200 mg of phenol acid, 1000 mg
    of glycyrrhizin, 1000 mg of riqrish, 1500 mg of L-ascorbic acid, 1000 mg
    of tocopherol, 1000 mg of citric acid, 1000 mg of tartaric acid, 600 mg of
    gallic acid, 1000 mg of sesamol, 1200 mg of lecithin, 1000 mg of
    phosphorus, 1000 mg of \beta-carotene, 1000 mg of niacin, 1000 mg of
     thiamin, 1000 mg of riboflavin, 1000 mg of folic acid, 1000 mg of
    potassium, 1000 mg of calcium, 500 mg of magnesium, 400 mg of iron, 300 mg
    of zinc, 5000 mg of tannic acid, and 10% of melanoidine; maturing the
    mixture at 15-20°C for 20 days; drying it at low temperature, followed by
    hydrolysis and liquid-solid separation; and concentrating the separated
products, followed
    by centrifugation, drying at low temperature and powdering.
ST
    protein conjugate antibiotic antioxidant
ΙT
    Proteins
    RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
     (Biological study); USES (Uses)
        (conjugates; protein conjugates having antibiotic and antioxidn.
       activities)
IT
    Carboxylic acids, biological studies
    RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
```

(phenolic, protein conjugates containing; protein conjugates having

(Biological study); USES (Uses)

antibiotic and antioxidn. activities) IT Sterols RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (phytosterols, protein conjugates containing; protein conjugates having antibiotic and antioxidn. activities) ΙT Carbohydrates, biological studies Glycosides Lecithins Lipids, biological studies Tannins Tocopherols RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (protein conjugates containing; protein conjugates having antibiotic and antioxidn. activities) ΙT Antibiotics Antioxidants (protein conjugates having antibiotic and antioxidn. activities) IT Ribosome-inactivating proteins RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (saporin, protein conjugates containing; protein conjugates having antibiotic and antioxidn. activities) TТ 50-81-7, L-Ascorbic acid, biological studies 59-30-3, Folic acid, biological studies 59-43-8, Thiamine, biological studies Niacin, biological studies 77-92-9, Citric acid, biological studies 83-88-5, Riboflavin, biological studies 87-69-4, Tartaric acid, biological studies 87-89-8, Inositol 89-78-1, Menthol 97-53-0, 122-48-5, Zingerone 149-91-7, Gallic acid, biological studies. 404-86-4, Capsaicin 491-70-3, Luteolin 530-14-3, Salinigrin 533-31-3, Sesamol 539-86-6, Allicin 555-66-8, Shogaol Glycyrrhizin 7235-40-7, β-Carotene 7439-89-6, Iron, biological studies 7439-95-4, Magnesium, biological studies 7440-09-7, Potassium, biological studies 7440-66-6, Zinc, biological studies 7440-70-2, Calcium, biological studies 7723-14-0, Phosphorus, biological studies 13849-91-7, Pomolic acid 58253-27-3, Gingerol 847862-43-5. Eugenin RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses) (protein conjugates containing; protein conjugates having antibiotic and antioxidn. activities) => dis his (FILE 'HOME' ENTERED AT 20:32:39 ON 10 JAN 2007) FILE 'REGISTRY' ENTERED AT 20:32:50 ON 10 JAN 2007 L11 S POMOLIC ACID/CN FILE 'CAPLUS' ENTERED AT 20:33:36 ON 10 JAN 2007 S POMOLIC ACID/CN FILE 'REGISTRY' ENTERED AT 20:33:41 ON 10 JAN 2007 L2 1 S POMOLIC ACID/CN

Page 4 searched 01/10/2007

FILE 'CAPLUS' ENTERED AT 20:33:42 ON 10 JAN 2007

L3

119 S L2

=> sav l1-l3
ENTER NAME OR (END):pomolic/l